## INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER Int.C1 <sup>7</sup> F15B11/00, E02F9/22					
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According to	o International Patent Classification (IPC) or to both na	tional classification and IPC			
	S SEARCHED				
	Minimum documentation searched (classification system followed by classification symbols)  Int.Cl <sup>7</sup> F15B11/00, E02F9/22				
1110.	C1 F13B11,00, B0213,22				
			•		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Jitsuyo Shinan Koho 1926—1996 Toroku Jitsuyo Shinan Koho 1994—2003 Kokai Jitsuyo Shinan Koho 1971—2003 Jitsuyo Shinan Toroku Koho 1996—2003					
ł	ata base consulted during the international search (name	_	·		
Electionic	ala vase consumed during the international scatch (hand	or data base and, where practicable, sea	ion terms usedy		
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C. DOCU	C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.		
A	JP 7-139511 A (Komatsu Ltd.)	,	1-11		
	30 May, 1995 (30.05.95), (Family: none)	e i jun			
A	JP 62-220620 A (Komatsu Ltd.	),	1-11		
	28 September, 1987 (28.09.87)	•	•		
1	(Family: none)	•			
A	JP 62-160334 A (Hitachi Cons	truction Machinery	1-11		
	Co., Ltd.), 16 July, 1987 (16.07.87),	·			
1	(Family: none)				
A	JP 10-212740 A (Komatsu Ltd.	,	1-11		
A	11 August, 1998 (11.08.98),	•	. 1 11		
1	Par. No. [0010]		,		
]	(Family: none)				
1		ł			
× Furthe	er documents are listed in the continuation of Box C.	See patent family annex.	<u> </u>		
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to					
considered to be of particular relevance  'E' earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot be					
date		considered novel or cannot be considered	ered to involve an inventive		
cited to	cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be				
"O" docum	];				
means "P" docume than the	means combination being obvious to a person skilled in the art				
Date of the actual completion of the international search  Date of mailing of the international search report					
T2 N	lovember, 2003 (12.11.03)	u∠ December, 2003	(UZ.12.U3)		
Name and m	Name and mailing address of the ISA/ Authorized officer				
Japa	nese Patent Office	•			
Facsimile No.			•		

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13125

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	JP 2003-184134 A (Komatsu Ltd.), 03 July, 2003 (03.07.03), (Family: none)	
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